



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

BGS GIMS CENTRAL LABORATORY, BGS GLOBAL INSTITUTE OF MEDICAL SCIENCES AND HOSPITAL, #67 BGS HEALTH AND EDUCATION CITY, UTTARAHALLI ROAD, KENGERI, BENGALURU, KARNATAKA, INDIA

Accreditation Standard

ISO 15189:2022

Certificate Number

MC-7032

Page No

1 of 7

Validity

16/12/2024 to 15/12/2028

Last Amended on

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CLINICAL BIOCHEMISTRY	Serum	A/G	Calculated
2	CLINICAL BIOCHEMISTRY	Serum	Albumin	Photometric BCG Dye method
3	CLINICAL BIOCHEMISTRY	Serum	ALP	Kinetic UV-IFCC
4	CLINICAL BIOCHEMISTRY	Serum	ALT	L-lactate to pyruvate by LDH to form NADH
5	CLINICAL BIOCHEMISTRY	Serum	Amylase	CNPG3
6	CLINICAL BIOCHEMISTRY	Serum	AST	NADH to NAD ⁺ , Malate dehydrogenase
7	CLINICAL BIOCHEMISTRY	Serum	BUN	Calculated
8	CLINICAL BIOCHEMISTRY	Serum	Calcium	Photometric method- Arsenazo III
9	CLINICAL BIOCHEMISTRY	Serum	Chloride	ISE-Direct
10	CLINICAL BIOCHEMISTRY	Serum	Creatinine	Jaffa's method
11	CLINICAL BIOCHEMISTRY	Serum	Direct Bilirubin	Photometric method- Diazo method
12	CLINICAL BIOCHEMISTRY	Serum	Free T4	CLIA
13	CLINICAL BIOCHEMISTRY	Serum	GGT	UV Kinetic method
14	CLINICAL BIOCHEMISTRY	Serum	Globulin	Calculated
15	CLINICAL BIOCHEMISTRY	Serum	Glucose	Hexokinase
16	CLINICAL BIOCHEMISTRY	Serum	HDL Cholesterol	Precipitation Method
17	CLINICAL BIOCHEMISTRY	Serum	Iron	Photometric (Ferrene) method
18	CLINICAL BIOCHEMISTRY	Serum	LDH	IFCC Method
19	CLINICAL BIOCHEMISTRY	Serum	LDL	CHE/CHO/POD
20	CLINICAL BIOCHEMISTRY	Serum	Lipase	enzymatic method using 1,2 diglyceride for pancreatic lipase test in serum
21	CLINICAL BIOCHEMISTRY	Serum	Magnesium	Bio-chromatic method
22	CLINICAL BIOCHEMISTRY	Serum	Phosphorus	Direct Method (ultraviolet spectrophotometry of the phosphomolybdic acid comple)
23	CLINICAL BIOCHEMISTRY	Serum	Potassium	ISE-Direct
24	CLINICAL BIOCHEMISTRY	Serum	Sodium	ISE-Direct
25	CLINICAL BIOCHEMISTRY	Serum	TIBC	Calculated
26	CLINICAL BIOCHEMISTRY	Serum	Total Bilirubin	Photometric end point method



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ISO 15189:2022

Certificate Number

MC-7032

Page No

2 of 7

Validity

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27	CLINICAL BIOCHEMISTRY	Serum	Total Cholesterol	Enzymatic photometric method (CHOD-PAP)
28	CLINICAL BIOCHEMISTRY	Serum	Total Protein	Biuret
29	CLINICAL BIOCHEMISTRY	Serum	Total T3	CLIA
30	CLINICAL BIOCHEMISTRY	Serum	Total T4	CLIA
31	CLINICAL BIOCHEMISTRY	Serum	Transferrin Saturation	Calculated
32	CLINICAL BIOCHEMISTRY	Serum	Triglyceride	L/GPO-PAP Col Free
33	CLINICAL BIOCHEMISTRY	Serum	TSH	CLIA
34	CLINICAL BIOCHEMISTRY	Serum	UIBC	Calculated
35	CLINICAL BIOCHEMISTRY	Serum	Urea	Urease GLDH method
36	CLINICAL BIOCHEMISTRY	Serum	Uric Acid	Uricase - Peroxidase method
37	CLINICAL BIOCHEMISTRY	Serum	VLDL	Calculated
38	CLINICAL PATHOLOGY	semen	Epithelial cells	Light microscopy with interpretation
39	CLINICAL PATHOLOGY	Semen	Fructose	Seliwanoffs test
40	CLINICAL PATHOLOGY	Semen	Liquefaction time	Macroscopic examination
41	CLINICAL PATHOLOGY	Semen	Morphology of normal sperms	Microscopic examination(PAP stain)
42	CLINICAL PATHOLOGY	Semen	MotilityA. Rapidlyprogressive B. SlowlyprogressiveC.NonprogressiveD. Immotile	Microscopic examination
43	CLINICAL PATHOLOGY	Semen	pH	pH paper strip method
44	CLINICAL PATHOLOGY	semen	Pus cells	Light microscopy with interpretation
45	CLINICAL PATHOLOGY	semen	Red Blood cells	Light microscopy with interpretation
46	CLINICAL PATHOLOGY	Semen	Sperm agglutinates	Light microscopy with interpretation
47	CLINICAL PATHOLOGY	Semen	Sperm count/ml	Improved Neubauer counting chamber, Semen Diluting Fluid (Sodium bicarbonate, Formalin, Distilled water)
48	CLINICAL PATHOLOGY	Semen	Sperm Vitality Test	Microscopy: Dye exclusion test (Eosin-Nigrosin stain)
49	CLINICAL PATHOLOGY	Semen	Total spermconcentration perejaculate	Calculated
50	CLINICAL PATHOLOGY	Semen	Volume	Macroscopic examination
51	CLINICAL PATHOLOGY	Stool	Stool for occult blood	Standard GUAIC method
52	CLINICAL PATHOLOGY	Urine	Appearance	Manual method



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Accreditation Standard

ISO 15189:2022

Certificate Number

MC-7032

Page No

3 of 7

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53	CLINICAL PATHOLOGY	Urine	Bile pigments	Fouchets test- manual
54	CLINICAL PATHOLOGY	Urine	Bile salts	Hays test-Manual
55	CLINICAL PATHOLOGY	Urine	Bilirubin	Diazonium method /FOUCHETS method)
56	CLINICAL PATHOLOGY	Urine	Casts	Microscopic examination
57	CLINICAL PATHOLOGY	Urine	Colour	Macroscopic/Reflectance method
58	CLINICAL PATHOLOGY	Urine	Crystals	Microscopic examination
59	CLINICAL PATHOLOGY	Urine	Epithelial cells	Microscopic examination
60	CLINICAL PATHOLOGY	Urine	Glucose	GOD POD method /Benedict's semi quantitative method
61	CLINICAL PATHOLOGY	Urine	Ketone bodies	Manual method sodium nitrioprusside test
62	CLINICAL PATHOLOGY	Urine	pH	Double indicator /Manual
63	CLINICAL PATHOLOGY	Urine	Protein	SSA Test /3 % Sulphosalicylic acid test
64	CLINICAL PATHOLOGY	Urine	Pus cells	Microscopic examination
65	CLINICAL PATHOLOGY	Urine	RBCs	Microscopic examination
66	CLINICAL PATHOLOGY	Urine	Specific gravity	Ion exchange method/Manual method (esbachs albuminometer)
67	CLINICAL PATHOLOGY	Urine	Urobilinogen	Reagent strip method (Modified Ehrlich reaction)
68	CYTOPATHOLOGY	Body fluids (Ascitic,Pleural,Synovial,Pus,BAL fluid,ET secretions,nipple discharge,pericardial fluid and cyst fluids)	Centrifugation, smearpreparation, Pap, H &E, MGG	Light Microscopy with Interpretation
69	CYTOPATHOLOGY	Cervical /vaginal/vault smears (Liquid based method)	Pap stain	Light microscopy with interpretation
70	CYTOPATHOLOGY	cervical/vaginal/vault smears (Conventional method)	Pap stain	Light microscopy with interpretation
71	CYTOPATHOLOGY	Palpable or non-palpable lesion involving any organ	FNA & guided FNA,smear preparation,MGG staining with orwithout PAP/H & E.	Light Microscopy with Interpretation
72	CYTOPATHOLOGY	Scraping from vesiculobullous lesions of skin	Tzanck smear MGGstain	Light microscopy with interpretation
73	CYTOPATHOLOGY	Sputum for malignant cells	smear preparation,MGG ,pap . H&Estaining	Light microscopy with interpretation



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Accreditation Standard

ISO 15189:2022

Certificate Number

MC-7032

Page No

4 of 7

Validity

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74	CYTOPATHOLOGY	Unstained smears	MGG staining with or without PAP/H & Estaining	Light microscopy with interpretation
75	CYTOPATHOLOGY	Urine for malignant cells	Centrifugation, smear preparation, MGG, pap . H&E staining	Light microscopy with interpretation
76	HAEMATOLOGY	Bone marrow	Bone Marrow Aspiration	Smear preparation, Leishman & MGG stain, light microscopy with interpretation. iron stain:Perl's prussian Blue Stain
77	HAEMATOLOGY	EDTA blood	Absolute basophil count	Calculated
78	HAEMATOLOGY	EDTA blood	Absolute eosinophil count	Calculated
79	HAEMATOLOGY	EDTA blood	Absolute lymphocyte count	Calculated
80	HAEMATOLOGY	EDTA blood	Absolute monocyte count	Calculated
81	HAEMATOLOGY	EDTA blood	Absolute neutrophil count	Calculated
82	HAEMATOLOGY	EDTA blood	Activated partial thromboplastin time	Opto mechanical method
83	HAEMATOLOGY	EDTA blood	Basophil	Electrical impedance/manual method- PS with Leishman/Geimsa stain
84	HAEMATOLOGY	EDTA blood	Blood grouping	Slide agglutination method with forward and reverse grouping /Gel Card method
85	HAEMATOLOGY	EDTA blood	Direct Coombs test	Tube agglutination method with Light microscopy /Gel card method
86	HAEMATOLOGY	EDTA blood	Eosinophil	Electrical impedance/manual method - PS with Leishman/Giemsas stain
87	HAEMATOLOGY	EDTA Blood	Hemoglobin	Non cyanide method of spectrophotometric measurement
88	HAEMATOLOGY	EDTA blood	Indirect coombs test	Tube agglutination method- with light microscopy / Gel card method
89	HAEMATOLOGY	EDTA Blood	IT ratio (Immature to total neutrophil ratio)	Leishman stain with light microscopy and interpretation
90	HAEMATOLOGY	EDTA blood	Lymphocytes	Electrical impedance/manual method -PS with Leishman/Giemsas stain
91	HAEMATOLOGY	EDTA blood	Mean corpuscular hemoglobin concentration (MCHC)	Calculated
92	HAEMATOLOGY	EDTA blood	Mean corpuscular hemoglobin (MCH)	Calculated
93	HAEMATOLOGY	EDTA blood	Mean corpuscular volume (MCV)	Derived from RBC Histogram
94	HAEMATOLOGY	EDTA blood	Mean platelet volume (MPV)	Derived from platelet histogram



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ISO 15189:2022

Certificate Number

MC-7032

Page No

5 of 7

Validity

16/12/2024 to 15/12/2028

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95	HAEMATOLOGY	EDTA blood	Monocytes	Electrical impedance/manual method - PS with Leishman/Geimsa Stain
96	HAEMATOLOGY	EDTA blood	Neutrophil	Electrical Impedance/manual method - PS with Leishman/Geimsa Stain
97	HAEMATOLOGY	EDTA blood	PCV / Hematocrit	Calculated
98	HAEMATOLOGY	EDTA blood	Peripheral smear	Leishman stain with Light microscopy and interpretation
99	HAEMATOLOGY	EDTA Blood	Peripheral smear for Toxic granules	Leishman stain with light microscopy and interpretation
100	HAEMATOLOGY	EDTA blood	Platelet	Electrical Impedance Coulter principle
101	HAEMATOLOGY	EDTA blood	Prothrombin time	Optomechanical method
102	HAEMATOLOGY	EDTA Blood	RBC count	Electrical Impedance Coulter principle
103	HAEMATOLOGY	EDTA blood	Red Cell Distributionwidth -SD	Derived from RBC_histogram
104	HAEMATOLOGY	EDTA blood	Reticulocyte count	Manual method (New methylene blue)
105	HAEMATOLOGY	EDTA blood	Sickle cell test	Manual- Sodium metabisulphate
106	HAEMATOLOGY	EDTA blood	Smears formalarial/Filaria parasite	Manual- Leishman stain: thick and thin smear
107	HAEMATOLOGY	EDTA Blood	Total WBC	Coulter principle
108	HAEMATOLOGY	EDTA blood/3.8% sodium citrate	ESR	Modified Westergren method
109	HISTOPATHOLOGY	Bone marrow Biopsy	Touch imprint ,Leishman & MGGstain. Grossing,Decalcification,processing , paraffinembedding,Microtomy, H & E Staining	Light microscopy with interpretation
110	HISTOPATHOLOGY	Cell block preparations for fluids/aspirates	Processing,Microtomy, H & Estaining (Conventional)	Light microscopy with interpretation
111	HISTOPATHOLOGY	Fresh unfixed biopsy tissue	Frozen section	Squash smears, touch imprint, Grossing, processing Microtomy, staining (H & E, MGG & PAP) - Light Microscopy with interpretation
112	HISTOPATHOLOGY	Paraffin blocks for second opinion	Microtomy /H & Estaining (Conventional)	Light microscopy with interpretation
113	HISTOPATHOLOGY	Slides for second opinion	Stained /Unstainedslides	Light microscopy with interpretation
114	HISTOPATHOLOGY	Small ,medium , large and very large tissues	Grossing,decalcification,processing,p araffinembedding, microtomyH & E Staining	Light Microscopy with interpretation
115	HISTOPATHOLOGY	Tissue/paraffin block /unstained slide	Sudan Black	Light microscopy with interpretation



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6 of 7

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116	HISTOPATHOLOGY	Tissue/paraffin block /unstained slide	Masson Trichome Stain	Light microscopy with interpretation
117	HISTOPATHOLOGY	Tissue/paraffin block /unstained slide	Myeloperoxidase Stain (MPO)	Light microscopy with interpretation
118	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Alcian Blue stain	Light Microscopy with Interpretation
119	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Congo red stain	Light Microscopy with interpretation
120	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Elastic Verhoeff's VanGieson(EVG)stain	Light Microscopy with interpretation
121	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Geimsa stain	Light Microscopy with Interpretation
122	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Grocott Methanaminesilver stain for fungi	Light Microscopy with Interpretation
123	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Mucicarmine stain	Light Microscopy with Interpretation
124	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	PAS stain	Light Microscopy with Interpretation
125	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Perl's stain	Light microscopy with interpretation
126	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Reticulin stain	Light Microscopy with Interpretation
127	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	Toluidine blue stain	Light Microscopy with interpretation
128	HISTOPATHOLOGY	Tissue/Paraffin block/Unstained slide	ZN stain for AFB	Light Microscopy with Interpretation
129	HISTOPATHOLOGY	Tissue/paraffin block/unstained slide	Fite Faraco stain	Light microscopy with interpretation
130	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	ASO test	Latex agglutination test
131	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Chikunguniya IgM Card Testtest	Immunochromatography
132	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	CRP test	Latex agglutination
133	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Dengue NS1, IgM, IgG Card test	Immunochromatography
134	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	HBsAg Card test	Immunochromatography
135	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	HCV Card test	Immunochromatography
136	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Leptospira IgM and IgG Card test	Immunochromatography
137	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Malaria P.f/Pan Ag test	Immunochromatography (HRP-II PLDH Antigen)
138	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	RA test	Agglutination



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Certificate Number

MC-7032

Page No

7 of 7

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139	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	RPR	Flocculation
140	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Typhi IgM & IgG Card Test	Immunochemistry
141	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Widal Tube test	Agglutination
142	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Sputum, Pus , Body Fluids - CSF, Ascitic, Pleural, Synovial, Pericardial, Peritoneal.	Gram stain test	Staining & Microscopy